

## **Final Adjustments, *California Energy Demand 2010-2020***

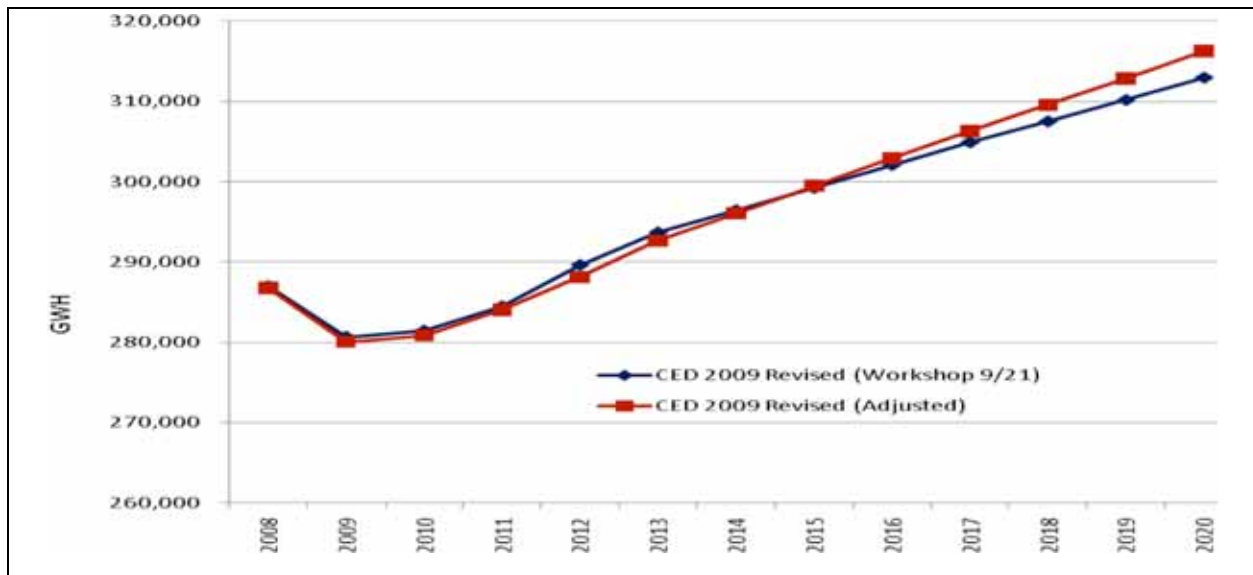
The forecast report, *California Energy Demand 2010-2020*, has been rewritten to incorporate three adjustments:

- 1) Shift of CPUC efficiency program cycle from 2009-11 to 2010-12
  - Reduces statewide electricity consumption by 0.6 percent in 2012, 0.4 percent in 2020
  - Reduces statewide peak by 0.3 percent in 2012, 0.2 percent in 2020
- 2) Addition of electric vehicle forecast
  - Increases statewide electricity consumption by 0.1 percent in 2012, 1.4 percent by 2020
  - Increases statewide peak by 0.02 percent in 2012, 0.3 percent in 2020
- 3) Adjustment to photovoltaic system self-generation projections
  - No impact on consumption
  - Increases statewide peak by 0.5 percent in 2012, 0.8 percent in 2020

Net Impact of 1) – 3) relative to revised forecast presented at 9/21 workshop:

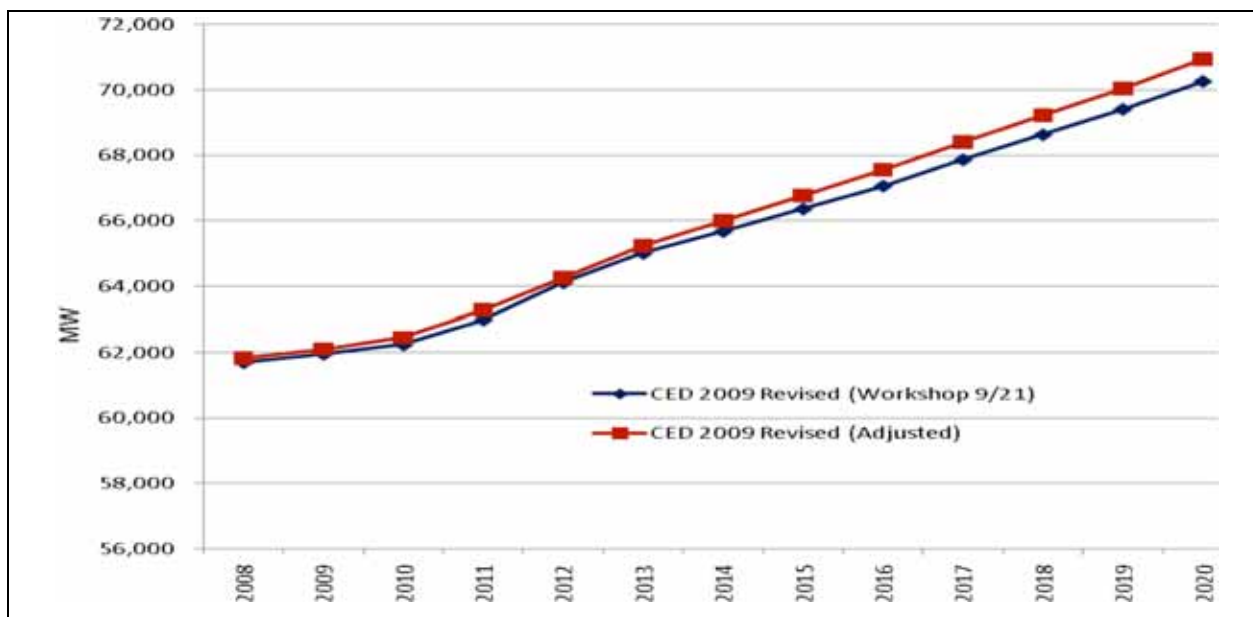
- Consumption down 0.5 percent in 2012, up 1 percent in 2020

**Figure 1: Impact of Adjustments on Statewide Electricity Consumption**



- Peak up 0.2 percent in 2012, up 1 percent in 2020

**Figure 2: Impact of Adjustments on Statewide Peak Demand**

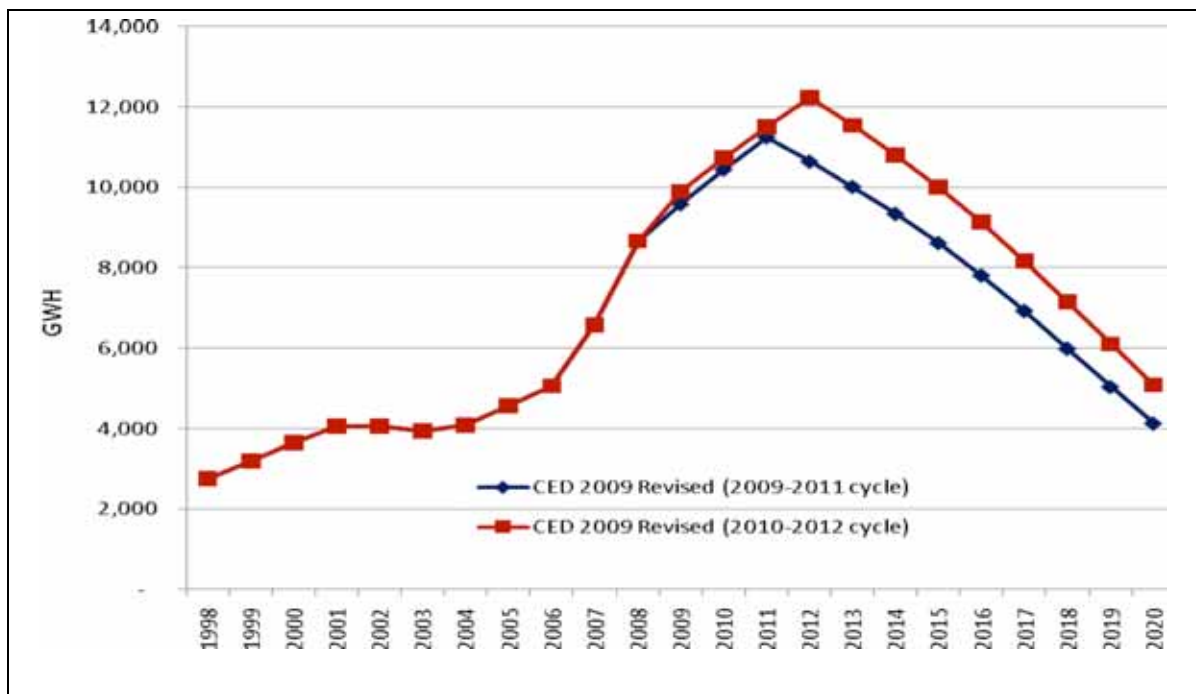


## Some Details

### IOU Efficiency Program Shift to 2010-12:

- 2009 a continuation of 2006-2008 program cycle
  - SCE and SDG&E report 2009 savings to date similar to 2008
  - PG&E reports around 50 percent of 2008 savings to date in 2009
  - SCE and SDG&E assigned 2008 first-year savings for 2009, PG&E 50 percent of 2008 first-year savings
- Previous 2009-2011 first-year program impacts shifted to one year later
- IOU efficiency program savings up 1,600 GWH in 2012 and 950 GWH in 2020 compared to forecast presented 9/21

**Figure 3: Impact of Program Cycle Shift on IOU Efficiency Program Impacts**



## Electric Vehicle Forecast:

- Used average of Fuels Office high and low cases
- Statewide forecast distributed to planning areas using DMV vehicle registrations for personal vehicles and employment for commercial vehicles
- Consumption translated to peak assuming 75 percent of recharging occurs during off-peak hours (10 pm – 6 am)
- Resulting EV electricity consumption by planning area:

**Table 1: Forecast of EV Electricity Consumption (GWH) by Planning Area**

Year	Burbank/ Glendale	Imperial	LADWP	Pasa- dena	PG&E	SCE	SDG&E	SMUD	Total
2009	0	0	1	0	4	4	1	0	12
2012	2	3	29	1	109	107	27	11	289
2015	14	18	177	7	694	683	173	69	1835
2018	25	34	320	12	1278	1257	315	127	3368
2020	32	46	413	15	1675	1647	410	165	4403

## Photovoltaic Self-Generation Adjustments

- Capacity adjustment: adjustment for performance test conditions.
- Peak factor adjustment as a result of further examination of CPUC solar system peak impact data and discussion with utilities.
- Adjustments result in less electricity self-generation and therefore less peak reduction, leading to previously mentioned 0.8% increase in peak requirements by 2020.